



Analytical Tools and Data

Phase 2 - Water Plan Update 2004

Advisory Committee Meeting
January 20, 2005



Objectives for Presentation

- Review
- Accomplishments
- Upcoming work



Review



Goals for Analytical Tools and Data

- Describe expectations for evaluation.
- Inventory and document data and tools consistently.
- Apply existing data and tools for Update 2008.
- Develop a long term plan for improvement.
- Coordinate with CALFED Program.



Desired End-Product

- Evaluate multiple future conditions (Scenarios)
- Explore wide range of benefits and costs (Evaluation Criteria)
- Support integrated regional planning



Accomplishments



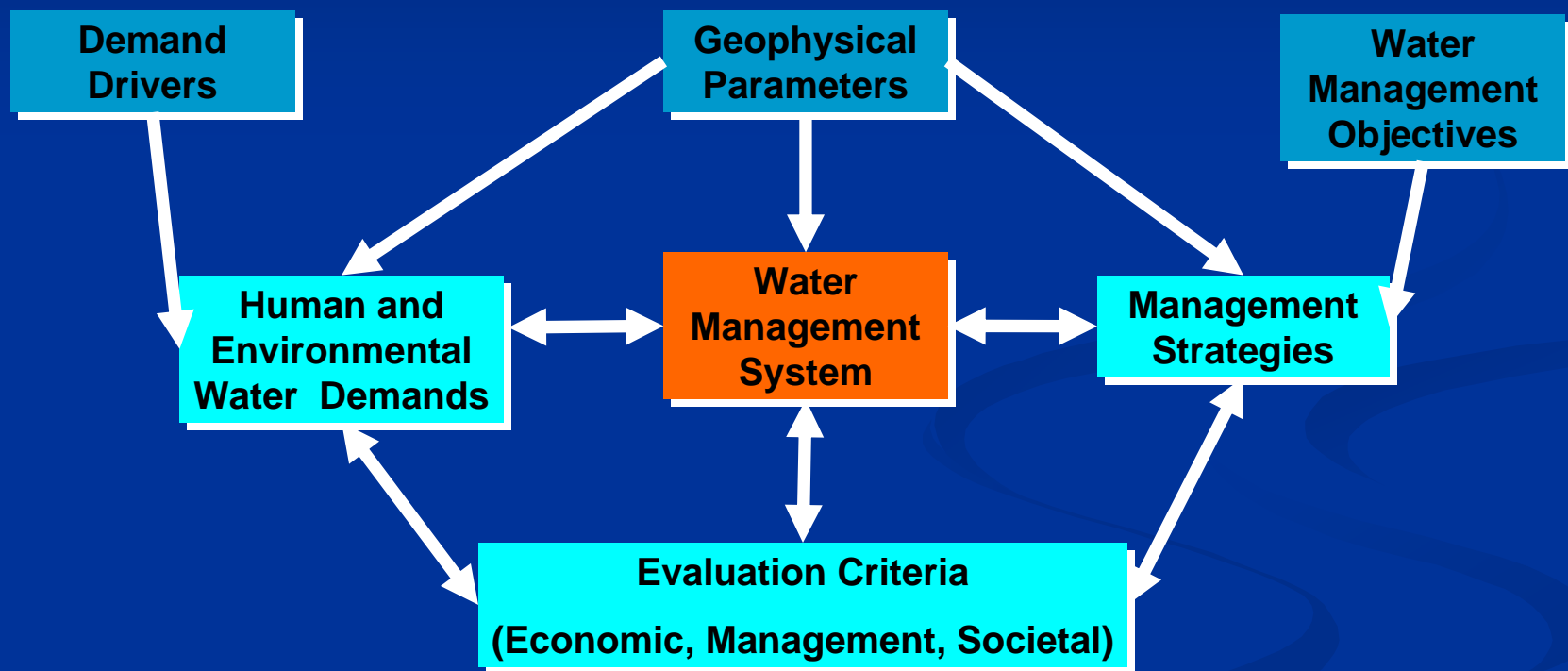
Recent Progress

- Initial quantification of 2030 water demands
- Held workshop with Modeling Work Group
- Outlined ideas for quantifying scenarios
- Submitted coordinated funding proposals to CBDA Science Program
- Documenting existing tools
- Participating in CALSIM model improvements

<http://www.waterplan.water.ca.gov/b160/workgroups/modelinggroup.htm>



Conceptual Framework for Assessing Water Resources and Management



Overview

Organization

Definitions



Conceptual Framework

- Can be applied at different spatial scales
- Describes complex system using simple categories
- Illustrates inputs, outputs, and relationships
- Draft HTML version available on CD



Upcoming Work



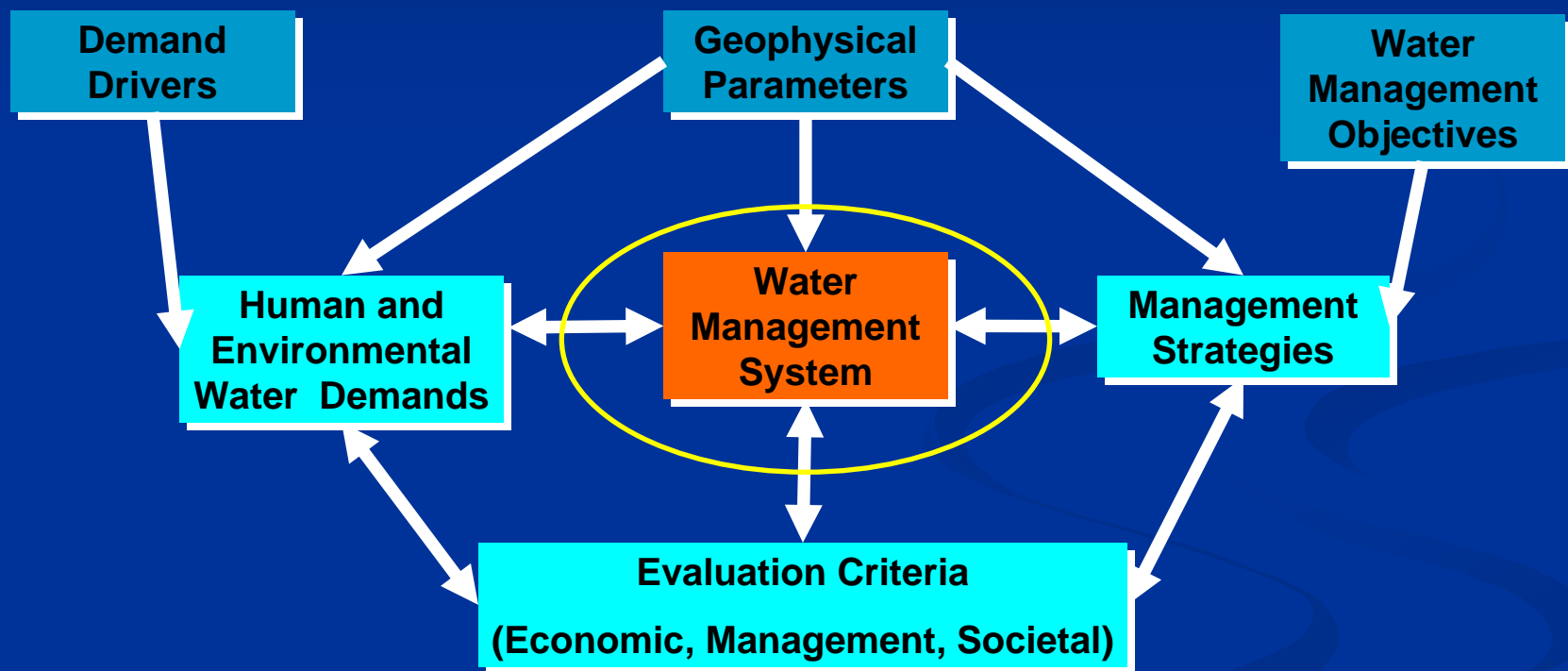
Work with Analytical Tools

Work Group to:

- Prioritize key components of flow diagram
- Define / refine key theoretical relationships
- Quantify detailed scenario factors
- Develop evaluation criteria details
- Develop response package details



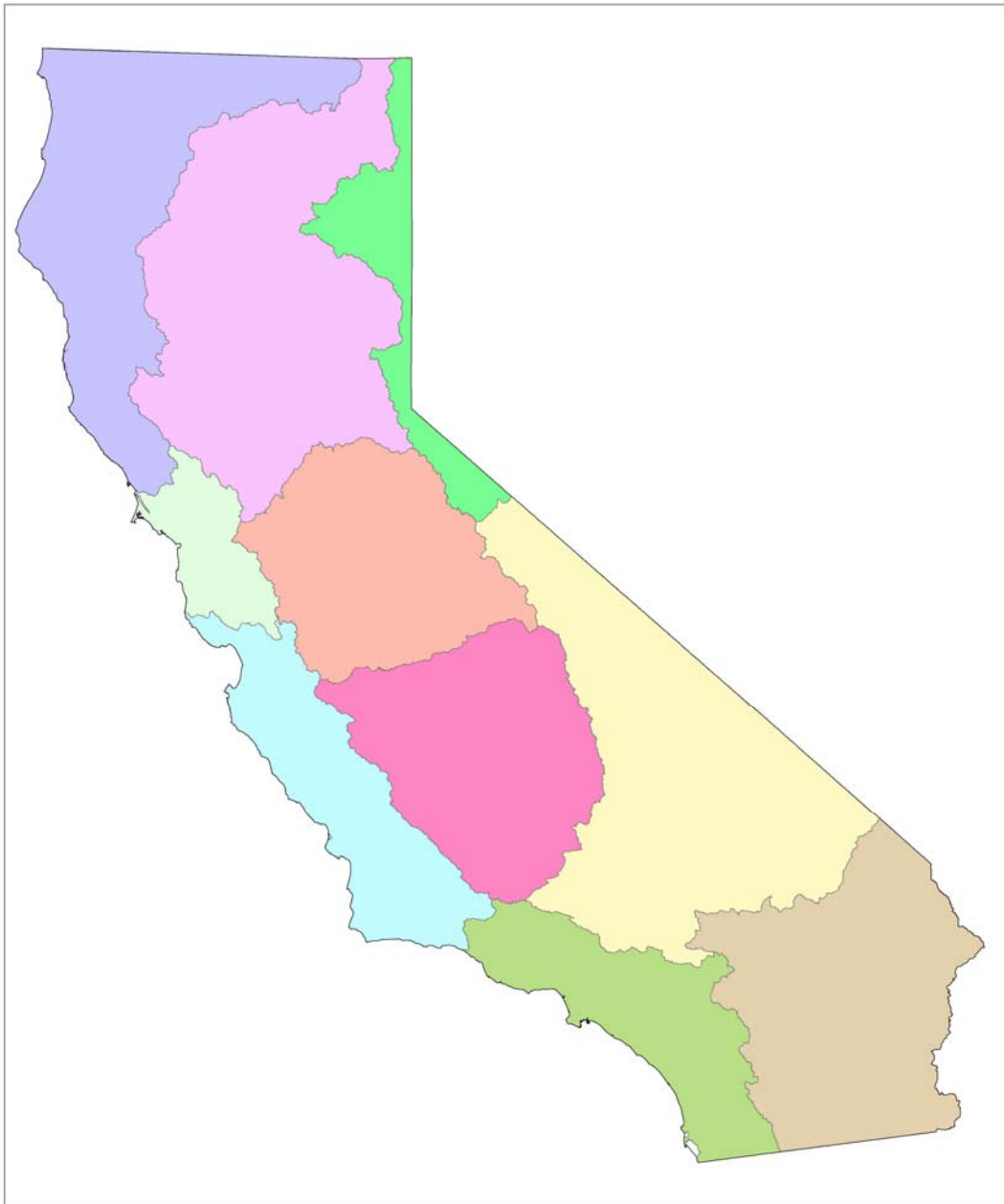
Conceptual Framework for Assessing Water Resources and Management



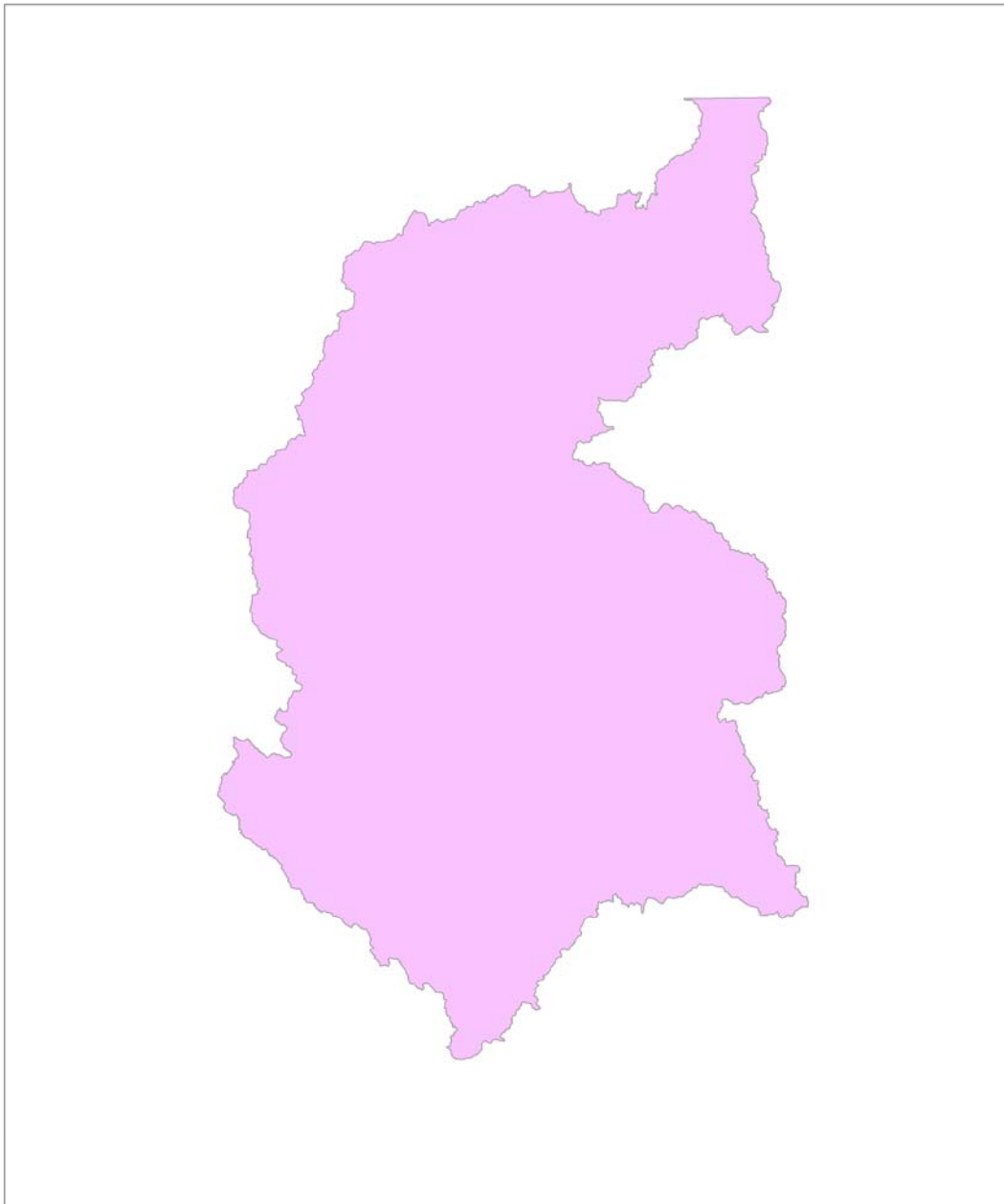
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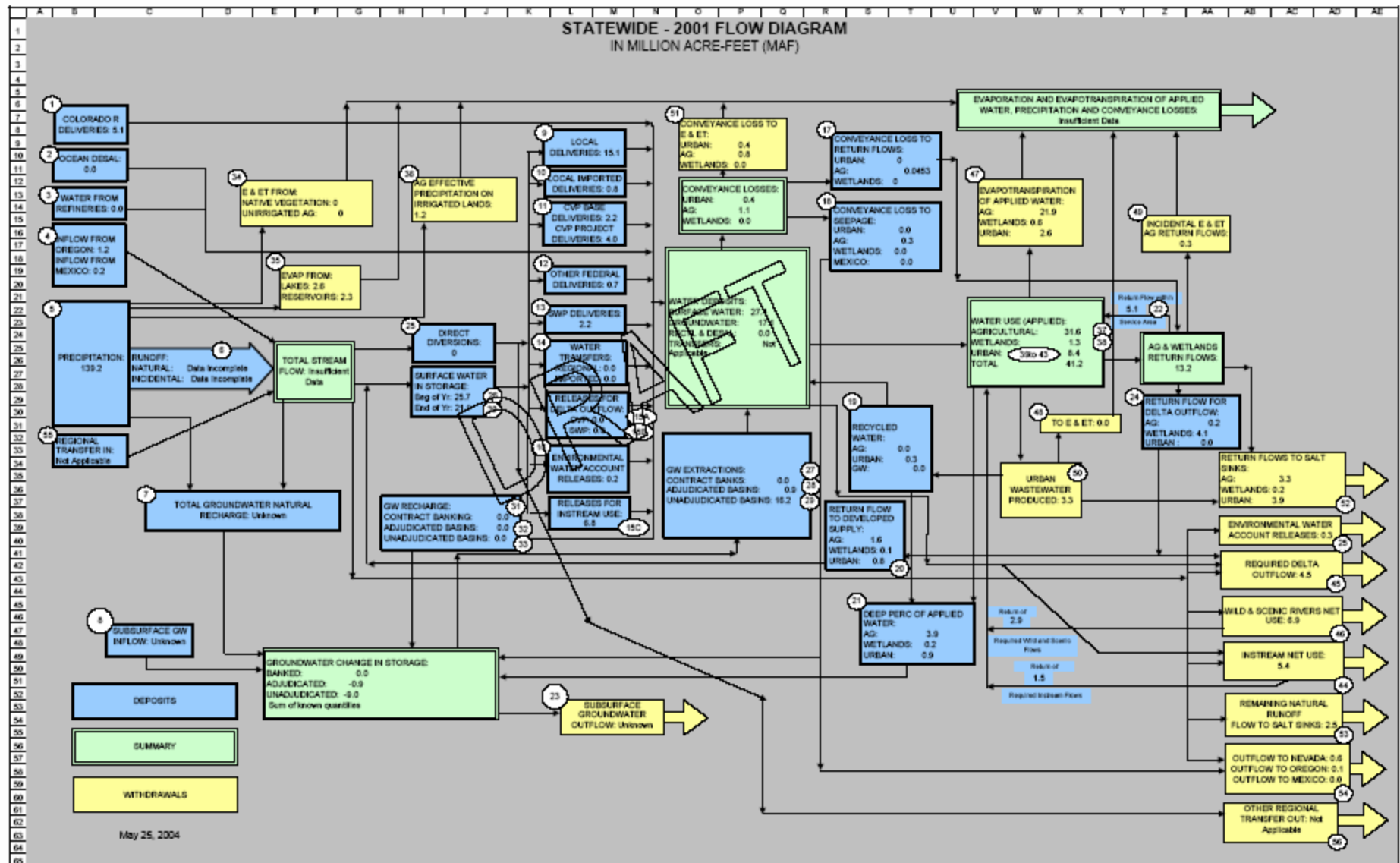


Need to Represent the
Water Management
System at Different
Spatial Scales
From Statewide ...

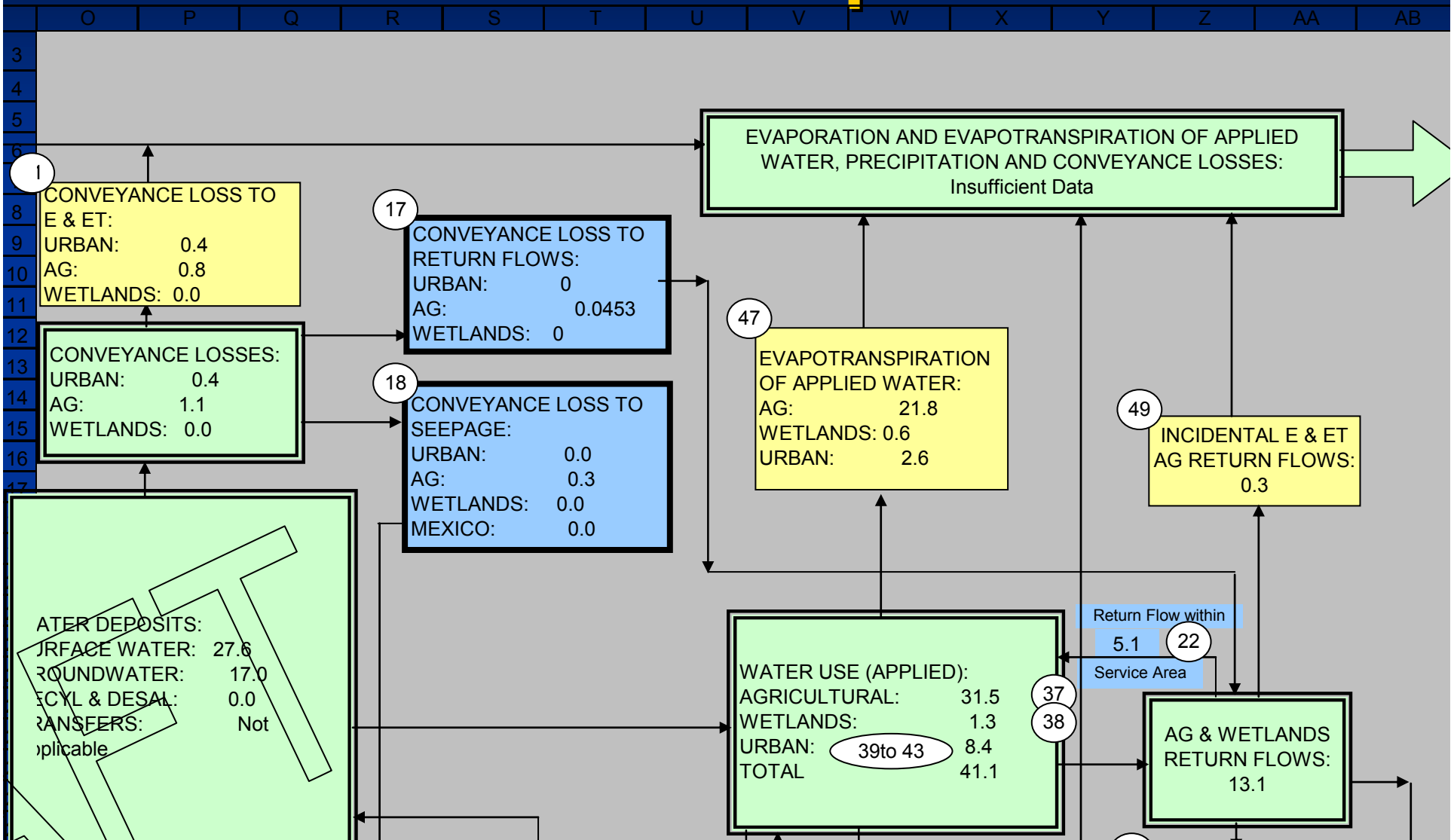


...To Hydrologic
Region or Planning
Area

Using the Flow Diagram ...



... to Define Data & Relationships





Using an Analytical Environment

- Staff is developing pilot of flow diagram using EXTEND software package
- Features
 - Explore different possible outcomes
 - Include relationships from best current knowledge
 - Transparent and relatively easy for others to review and use
 - Can use in “real-time” interactions with stakeholders



Using the Best Available Analytical Tools and Data to Quantify Flow Diagram

- Published data and surveys
- Estimates derived from simple relationships
- Estimates derived from models



Next Steps - for Update 2008

- Develop a short-term workplan with Analytical Tools Work Group by June 2005 (for Update 2008)
- Continue documenting existing tools
- Continue developing pilot project using EXTEND software
- Improve ways to manage and share Water Plan data



Next Steps - Beyond Update 2008

- Develop long-term plan to improve existing tools
- Fill data gaps
- Develop Water Plan Information Exchange (Water PIE)



Summary

- We are working to accomplish specific goals for data and tools
- Good progress has been made
- Much more to be done
- Need to meet soon and often with Analytical Tools Work Group

